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QUALITY ACCREDITED TO
ISO 9001:2008

URS is a member of Registrar of Standards (Holdings) Ltd.

Storm Controls LIMITED

Menu Module

for use with

Printman2

Temperature Recorder

User Manual

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Menu Module
USER MANUAL

CONTENTS

		Page
1.	USER INFORMATION	3
2.	MODULE POWER ON	4
3.	DISPLAY INFORMATION	5
4.	SETTING PARAMETERS	5
4.1	Entering Menu	5
4.2	Print Program Settings	6
4.3	Set Company Name	6
4.4	Set Vehicle Registration	6
4.5	Set Date	7
4.6	Set Time	7
4.7	Set Sample Rate	7
4.8	Set Alarm Ranges	7
4.9	Change Alarm Settings	8
4.10	Set Alarm Delay	8
4.11	Print Back From	9
4.12	Exit from Menu & Read Me	10.
5.	Connecting the Menu Module	11

FIG. 1

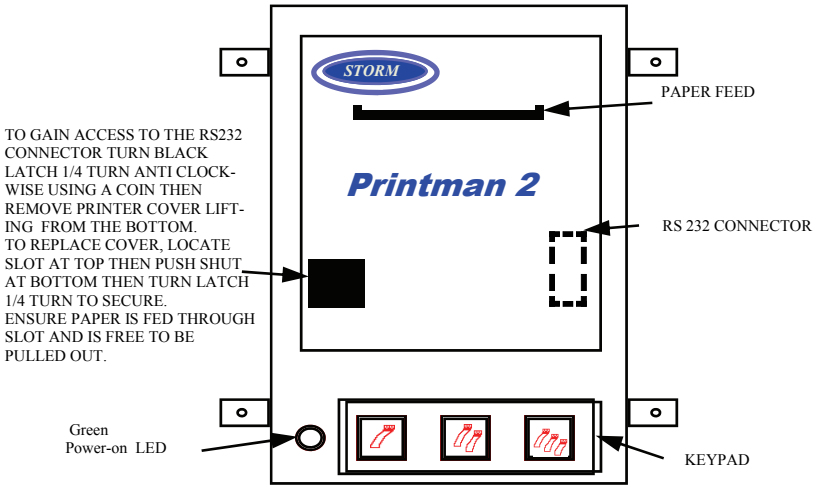

TO GAIN ACCESS TO THE RS232 CONNECTOR TURN BLACK LATCH 1/4 TURN ANTI CLOCK-WISE USING A COIN THEN REMOVE PRINTER COVER LIFT-ING FROM THE BOTTOM.
TO REPLACE COVER, LOCATE SLOT AT TOP THEN PUSH SHUT AT BOTTOM THEN TURN LATCH 1/4 TURN TO SECURE.
ENSURE PAPER IS FED THROUGH SLOT AND IS FREE TO BE PULLED OUT.
STORM
Printman 2
PAPER FEED
RS 232 CONNECTOR
Green
Power-on LED
KEYPAD

FIG. 2

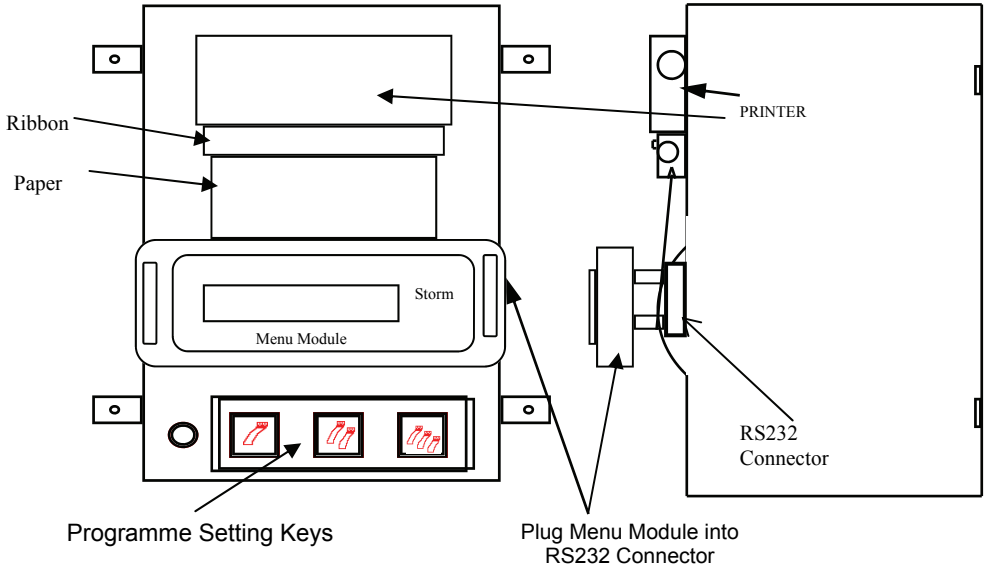


FIG. 3

4.12 Exit from menu

To exit from the main menu and return to normal operation, the menu display must be returned to item '1.EXIT' by pressing and releasing the key until the '1.EXIT' caption is reached.

Then with the item '1 EXIT' on the screen press the key.

The recorder will then go through a short up date procedure and returns the recorder to operation with the new parameters installed.

READ ME

BE SURE TO "EXIT" THE MENU CORRECTLY BEFORE UNPLUGGING THE MENU MODULE

ENSURE THAT THE MENU MODULE DISPLAY IS CYCLING THROUGH THE TIME, DATE & TEMPERATURE BEFORE UNPLUGGING THE MENU MODULE FROM THE PRINTMAN 2 UNIT.

IF THE PROPER EXIT PROCEDURE IS NOT FOLLOWED THE PRINTMAN 2 MAY BE LEFT IN THE MENU MODE WHICH WILL MEAN THAT THE RECORDER WILL NOT RECORD OR PRINT.

Note:

The Menu Module tool only operates with Printman 2 Recorders made by Storm Controls Ltd and will not operate with Printman Original Units made by Clyde Valley Controls Systems or Storm Products.

1. USER INFORMATION

Congratulations on buying a Menu Module from Storm Controls, we are sure that it will give you a long and trouble free service.

THE MENU MODULE IS A TOOL THAT ALLOWS THE USER TO ALTER PROGRAMME PARAMETERS ON PRINTMAN2 RECORDERS WITHOUT THE NEED FOR A PC or LAPTOP. THE MENU MODULE IS TEMPORARILY PLUGGED INTO THE PRINTMAN RS232 PORT, THE PARAMETERS SET AND THE MODULE REMOVED FOR USE ON OTHER UNITS. PLEASE STORE IN A DRY ENVIROMMENT. THE MODULE HAS NO INTERNAL BATTERY SINCE IT DERIVES ITS POWER FROM THE RECORDER, SO NEEDS NO MAINTENANCE.

This Menu Module is designed to operate with Printman2 recorders supplied by Storm Controls Ltd. and manufactured after August 2009. (Serial Numbers after SCP 3013 and all SCL SM2 versions)

It will not operate with Printman Recorders manufactured by Storm Products or Clyde Valley Control Systems Ltd.

Important Information
Menu Module
for
STORM CONTROLS LTD PRINTMAN 2 RECORDERS
Type Printman 2 SCL SM2 versions.

Failure to observe this instruction may invalidate the module warranty:

* The unit warranty does not allow for users tampering with the unit or gaining access to the internal printed circuit board or components of the unit.

* Only Storm approved personnel should attempt to carry out repairs or alterations to the unit or its software.

* The Menu Module Assembly is not waterproof so should not be used or stored in a situation that can damage the unit due to water or other fluid ingress.

2. POWERING UP THE MENU MODULE

2.1 The Menu Module can be plugged into the Printman2 recorder :

a) (HOT) Para2.2 - - i.e. when the recorder is powered on and operating normally or
b) (COLD) Para2.3- - i.e. when the Printman2 power is disconnected then power applied.

Page 11 of this manual describes where and how to plug in the module.

2.2 In the (HOT) condition the Menu Modules display initially shows : ■■■■■■■■■■■■■■■■ On the top Line .

After a few seconds the Menu Module is recognised by the Printman2 Unit and the Menu Module Display begins to show Time, Date and Sensor Temperature Information, and continues cycling through these parameters as the Printman2 Recorder processes information from it's real time clock, calendar and sensor inputs.

2.3 After Power up from the (COLD) condition the Menu Modules display initially shows ■■■■■■■■■■■■■■■■ On the top Line .

After a few seconds after completion of the boot up routine, the Menu Module is recognised by the Printman2 Unit and the Menu Module Display begins to show Information from the boot up routine and then Time, Date and Sensor Temperature Information, and continues cycling through these parameters as the Printman2 Recorder processes information from it's real time clock, calendar and sensor inputs.

2.4 At this stage the Menu Module is fully operational and can be used to access the user menu facilities.

2.5 Certain User Parameters are preset on the Printman2 unit at the factory for your convenience these are called the Default values. The normal Default values set within the Printman2's memory on delivery are listed below:

Company Name:	*Storm Controls*	***(See section 2.8.1)***
Vehicle Registration:	*Pxxxxx*	***(See section 2.8.1)***
Recording Sample rate:	*15 minutes*	
Time	*Current date*	
Date	*Current time*	
Frozen alarm	*-18 to - 25 ºC*	***(See section 2.8.1)***
Chilled alarm	*0 to +8*	***(See section 2.8.1)***
Alarm Delay	*15 minutes*	***(See section 2.8.1)***
Alarm status:-	Sensor 1 = off, Sensor 2 = off	***(See section 2.8.1)***

2.6 These Default values will be operational at the first switch on and throughout the units life unless changed by the user. Any parameters that require changing, can be changed using the Menu Module in conjunction with the Printman2's User Menu .

2.7 Change the defaults values using the Menu Module : See Pages 9 through 11.

4.11: Print All Data & Print Back From

Select Item 11. on Menu "PRINT FROM/TO " by pressing the key.

The display will show the start and end dates stored in the memory.
For example:
From 05/12/14 end date
To 31/10/14 Start date

Check that the required dates are within this time span

PRINT ALL DATA
If a print out of the whole memory is required simply press the key 3 times to step through the "From" date without changing the initial "From" date. Press the key again and the recorder will begin to print out the whole of the data held in memory.
After Printing is complete the recorder jumps to the '1.EXIT' menu position. The Printing can be stopped during the printout by holding down the key until the printer stops.

PRINT BACK FROM
To print back from a selected part of the data stored in memory press the key once to select the 'From Date, Setting function and press again to enter the date setting function.

Use keys to set the Day

Date 05/12/14
**

number. Once the Day is set press the key to enter the Month setting and repeat the same procedure to set the required Month and Year. After the Year is set press the key again to start the print.

A message "Please Wait" will flash briefly onto the screen, the time on screen determined by the amount of data held in memory. After which time the print out will start.

The printer can be stopped once the required data is printed by pressing and hold down the key until the printing stops and then releasing. The printer will stop and start up again and print out the "Signed ……." line and then stop completely.
After the printing ends the recorder will jump to the '1.EXIT' position in the menu.

Portion of Typical Printout

STORM CONTROLS
PMXL10453
DATE: 18:06:14 TIME 12:02

ALARM RANGES:-
FROZEN -18.0 / 25.0
CHILLED 8.0 / 0.0

ALARM STATUS
T1 OFF T2 OFF
T3 OFF T4 OFF

PRINTING DATA

T1	T2	T3	T4
18/06/2014	12:25	12.25	
2.2	-1.8	-8.9	7.5
	12.40		
12.2	-1.7	-8.6	7.0
	12.55		
12.3	-1.8	-8.6	7.0

SIGNED……

Notes: 1. When the function is entered the From /To dates are displayed as described above . Please ensure that the date that you wish to print back from is within these dates, otherwise the date is not held in memory and hence cannot be printed back from.
2. If the unit has been without power at any period within the From/To dates the print out will not be continuous so expect gaps within the printout.
Be aware that any gaps could contain the "From" date.

4.9: Change Alarm

The Recorder has 3 alarm settings.

This function is used to assign each channel alarm to 'Frozen', 'Chilled' or 'Off'. (Default is OFF)

Press the key to enter the function.

OFF SENSOR 1 → FROZEN SENSOR 1 → CHILLED SENSOR 1

Use the key to step throughout the selections as show above

To accept the selection for Sensor 1 Press and release the key to accept and move the selection to the next Sensor Channel.
Repeat for channels 2, 3 &4.
Note: It is necessary to step through the Sensors channels from 1 to 4 before you can exit this parameter and return to the menu using the key again.
Leave any sensors not in use at 'OFF'.

4.10: Set Alarm Delay

The alarm delay is the time that an out of temperature condition has to be active before it is treated as an alarm, and activates the recorder alarm functions.

Use the or keys to scroll throughout the numbers (0-60)

above the asterisk (*).

Press and release the key to accept and move the'*' to the next character.

CURRENT ALARM DELAY 30 (mins) →

Exit to main menu from the alarm delay set-up loop using this command.

Alarms

Should an alarm occur the display will show 'ALARM' at the appropriate channel on the display, but only after the "alarm delay" set time has elapsed.
The Alarm Output circuit will also become active at this time.

3. MENU MODULE DISPLAY

3.0 **Display on Menu Module**

During initial power up from (COLD) the display shows various parameters of the unit.
Immediately after power on:
Display shows " Chans 2 ADT =15
i.e. 2 sensors fitted, alarm delay time = 15 minutes.

3.1 After initial power up the display reverts to its normal mode, which first displays the current date and time. This is factory set and should be correct unless the unit has been moved through time zones without resetting to local time. The internal clock automatically takes account of local winter/summer time offsets plus leap year correction
Date & Time display looks like:

07/02/11
09:23

3.2 After displaying the date and time of day the display then scans each connected sensor in turn and displays its measured temperature value and sensor number.
Sensor display looks like:

Sensor 2
-10.9

The temperature is displayed in degrees Celsius.

3.3 The display continues to cycle from Date & Time, through each Sensor reading and back to the Time & Date

4.1 Menu Set-up of Default Parameters using Menu Module

1. EXIT
2. PRINT PROG. SETTINGS
3. COMPANY NAME
4. VEHICLE REGISTRATION
5. SET DATE
6. SET TIME
7. SAMPLE RATE
8. SET ALARM RANGES
9. CHANGE ALARM SETTINGS
10. SET ALARM DELAY
11. PRINT FROM-TO

Note:
Printman2 in its standard configuration does not have the Alarm Output driver or the Defrost Input fitted.

It does however show alarm conditions on the Menu Module display and the Journey & Printall tickets as standard.

To enter the menu of the recorder. press and hold the key and while still holding, press the key then release both keys.
The menu item 1.EXIT will appear on the display. This is the top of the menu.

Use the key to scroll down through the menu, and the key to scroll back up through the menu.

Once the required option is reached.
Press and release the key to access this option.

4.2: Print Program Settings

Entering this function automatically prints out the current menu set-up parameters.
Note: This function will only print out any changes you have made once you have exited the menu and then re-entered the menu again, since the parameters are only updated at Exit

4.3: Company Name

```
STORM   CONTROLS
*
```

This option gives you the facility to print out your Company name at the top of each ticket print-out using up to 15 characters.

Use the and keys to scroll throughout the characters and numbers or blank above the asterisk

Press and release the key to accept the symbol you wish for the '*' position and move the'**'** to the position for the next character .
Note:
It is necessary to move the '*' to the last character (15TH) on the display, even if these characters are blank, in order to accept the new name and move to the next menu parameter.

4.4: Vehicle Registration

```
SC13 WYS
*
*
```

This option gives you the facility to print out your vehicle registration number using up to 14 characters on your data printout. The wording selected as the Vehicle Reg. is also used for identification of PC Files if data is ever uploaded

Use the and keys to scroll throughout the characters and numbers above the asterisk (*).

Press and release the key to accept and move the'*' to the next character.
Note: It is necessary to move the * to the last character (14TH) on the display , even if these characters are blank, in order to accept the new name and move to the next menu parameter.

4.5: Set Date

```
DATE  01/01/14
      **
```

Use the and keys to scroll through the numbers above the asterisks (**).

Press and release the key to accept the new date and move the'**' to the next number.
Note: It is necessary to advance to the last character on the display in order to accept and move to the next menu parameter.

4.6: Set Time

```
TIME  12: 1:15
      **
```

Use the and keys to scroll through the numbers above the asterisks (**).

Press and release the key to accept and move the'**' to the next character.
Note: It is necessary to advance to the last character on the display in order to accept the new time and move to the next menu parameter.

4.7: Set Sample Rate

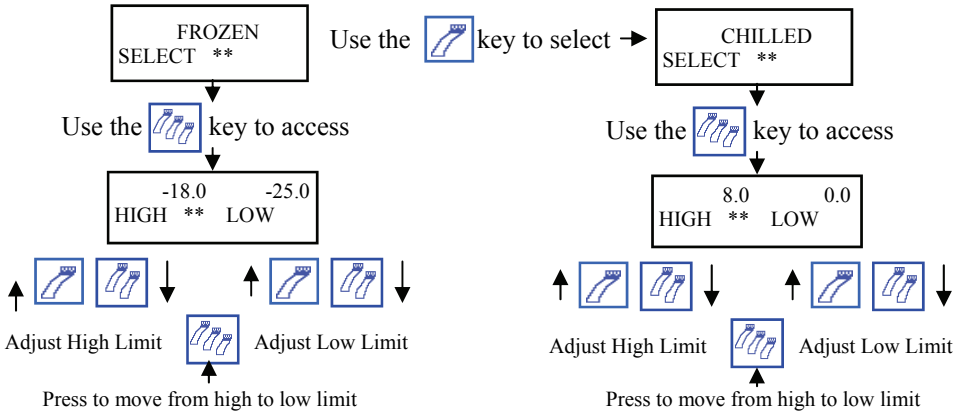
```
CURRENT SAMPLE
RATE      15   (min)
```

Use the or keys to scroll throughout the numbers (1-60).

Press and release the key to accept the new sample time.

4.8: Set Alarm Ranges (use only if you wish to change the alarm range settings)

Use the keys to access the function.



Use the key to return to main menu after setting